Web Address: www.dom.com



August 8, 2016

BY U.S. MAIL RETURN RECEIPT REQUESTED

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Mr. William F. Durham Director, Division of Air Quality West Virginia Division of Environmental Protection 601 57th Street Charleston, WV 25304

Subject: <u>Dominion Transmission</u>, Inc. – Title V Renewal Application

West Union Plant - R30-01700011-2012

Dear Mr. Durham:

Enclosed please find the Title V Renewal Application for Dominion Transmission, Inc.'s (DTI) West Union Plant, Permit No. R30-01700011-2012. The enclosure consists of one hard copy and two cd copies of the application that includes all attachments.

As part of the Title V renewal application, the equipment list has been updated based on recent updates to the West Union Plant:

- Equipment removed from the facility:
 - TK04 150-gallon Horizontal Aboveground Wastewater Storage Tank
- Equipment added to the facility:
 - TK09 1,000-gallon Horizontal Aboveground Used Oil Storage Tank
- Correction to equipment at the facility:
 - TK05 This tank was previously listed as a wastewater storage tank, but the correct description is a produced fluids storage tank.

In addition, as part of the renewal application, we request the following change to the Title V permit:

Section 4.0

Permit Conditions listed in Section 4.0 (Reciprocating Combustion engines [001-01 and 001-02]) of the current Title V permit for the two (2) reciprocating internal combustion

Mr. William Durham August 8, 2016 Page 2

engines (RICE) (Units 001-01 and 001-02) will need to be updated to reflect the most current version of 40 CFR 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. In addition, these two (2) engines are considered remote stationary RICE's meeting the criteria established in 40 CFR 63.6675. As such, only the applicable conditions of 40 CFR 63 Subpart ZZZZ associated with remote stationary RICE's for these two (2) non-emergency spark ignition 4-stroke rich burn engines greater than 500 hp at an area source of HAPs should be included in the Title V permit.

Note, West Virginia Division of Environmental Protection (WVDEP) was notified and acknowledged in email correspondence between Mr. Joseph Pietro of Dominion and Ms. Carrie McCumbers of WVDEP, dated May 17, 2016, that the conditions listed in Section 4.0 of the current Title V Permit for the two (2) engines will need to be corrected since these engines are considered remote stationary RICE's.

If you require any additional information, please contact Joseph Pietro at (804) 273-4175 or via email at Joseph.J.Pietro@dom.com.

Sincerely,

Amanda B. Tornabene

Director, Energy Infrastructure Environmental Services

cc: Joseph Pietro, Dominion

tra

WEST UNION PLANT DOMINION TRANSMISSION, INC. APPLICATION FOR TITLE V OPERATING PERMIT RENEWAL TITLE V OPERATING PERMIT NO: R30-01700011-2012

Dominion Transmission, Inc.
West Union Plant
Highway 18
West Union, WV 26456

AUGUST 2016

DOMINION TRANMISSION, INC. WEST UNION PLANT

TITLE V OPERATING PERMIT RENEWAL APPLICATION

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Section 2: Title V Renewal Permit Application – General Forms

ATTACHMENTS

Attachment A:

Area Map

Attachment B:

Plot Plan

Attachment C:

Process Flow Diagrams

Attachment D:

Title V Equipment Table

Attachment E:

Emission Unit Forms

**Note: There are no Attachments F, G and H for this permit application.

TITLE V PERMIT APPLICATION CHECKLIST FOR ADMINISTRATIVE COMPLETENESS

Requirement	Application
One signed copy of the application (per WVDEP email correspondence 4/16/15)	Enclosed - Section 2
Correct number of copies of the application on separate CDs or diskettes, (i.e. at least one disc per copy)	Enclosed – 2 CDs
*Table of Contents (needs to be included but not for administrative completeness)	Table of Contents
Facility Information	Section 1/Section 2
Description of process and products, including NAICS and SIC codes, and including alternative operating scenarios	Section 1 / Section 2: TV Renewal Application Form Section #14
Area map showing plant location	Attachment A
Plot plan showing buildings and process areas	Attachment B
Process flow diagram(s), showing all emission units, control equipment, emission points, and their relationships	Attachment C
Identification of all applicable requirements with a description of the compliance status, the methods used for demonstrating compliance, and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the source is not in compliance	Not Applicable
Listing of all active permits and consent orders (if applicable)	Section 2: TV Renewal Application Form Section #21

Facility-wide emissions summary	Section 2: TV Renewal Application Form Section #23
Identification of Insignificant Activities	Section 2: TV Renewal Application Form Section #24
ATTACHMENT D – Title V Equipment Table completed for all emission units at the facility except those designated as insignificant activities	Attachment D
ATTACHMENT E – Emission Unit Form completed for each emission unit listed in the Title V Equipment Table (ATTACHMENT D) and a Schedule of Compliance Form (ATTACHMENT F) for all requirements for which the emission unit is not in compliance	Attachment E Attachment F not applicable
ATTACHMENT G – Air Pollution Control Device Form completed for each control device listed in the Title V Equipment Table (ATTACHMENT D)	Attachment G not applicable
ATTACHMENT H – Compliance Assurance Monitoring (CAM) Plan Form completed for each new control device for which the "Is the device subject to CAM?" question is answered "Yes" on the Air Pollution Control Device Form (ATTACHMENT G)	Attachment H not applicable
General Application Forms signed by a Responsible Official	Enclosed – Section 2
Confidential Information submitted in accordance with 45CSR31	Not Applicable

SECTION 1

Introduction

1.0 INTRODUCTION:

West Union Plant is a natural gas liquids (NGL) extraction facility operated by Dominion Transmission, Inc. (Dominion) and located in West Union, Doddridge County, West Virginia. It first began operating in 1983 and was acquired by Dominion on December 29, 2000. Propane and heavier components of natural gas are removed through a turbo-expander cryogenic process and trucked offsite for delivery to Dominion's Hasting Extraction Plant in Wetzel County, West Virginia, the Natrium Extraction Plant in Marshall Co., WV, or any other facility that can legally accept the product.

West Union Plant has the potential to emit in excess of 100 tons per year of nitrogen oxides (NO_x). The station is classified as a major stationary source under West Virginia Department of Environmental Protection (WVDEP) Regulation (45 CSR Part 30) and is subject to the Title V Operating Permit provisions of Part 30. West Union Plant is an area source of hazardous air pollutants (HAPs) since the potential to emit is less than 10 tons per year for individual HAPs and less than 25 tons per year of combined HAPs.

The last Title V Operating Permit renewal application was submitted in July 2011, and the renewed Title V Operating Permit (Permit No.: R30-01700011-2012) was issued on March 5, 2012, with an expiration date of March 5, 2017. The current Title V operating permit is for the operation of two (2) reciprocating engines (001-01 and 001-02) each rated at 730 horse power (hp), and eight (8) aboveground storage tanks of various sizes and product storage tanks (TK01 – TK03, TK05 – TK09).

2.0 PROCESS DESCRIPTION

West Union Plant is a NGL extraction facility in which propane and heavier components of natural gas are removed through a turbo-expander cryogenic process. There are no air pollution control devices associated with this facility.

The facility receives "wet" natural gas from Equitrans and processes it through a turbo-expander cryogenic process. The resulting fluid removed from the natural gas is a mixture of ethane, propane, iso and normal butane, and hexanes. The product is termed NGL. This liquid is stored in a battery of three bullet style 30,000-gallon pressure tanks. The NGL product is trucked off for delivery to Dominion's Hasting Extraction Plant in Wetzel Co., WV, the Natrium Extraction Plant in Marshall Co., WV, or any other facility that can legally accept the product.

The reciprocating compressor units (001-01 and 001-02) pump the natural gas through the plant. Engine oil and antifreeze are kept in bulk pressurized storage tanks to maintain compressor engine operations. The stripped natural gas is delivered back to Equitrans by pipeline. Also, besides the saleable NGL product, produced fluids are generated and stored in a 5,000-gallon horizontal storage tank (TK05).

Listed below is a description of the equipment located at the West Union Plant:

Two (2) 730 hp Caterpillar 399TA Compressor Engines

Emission unit ID: 001-01 and 001-02

Emission point ID: 001 & 004, and 002 & 004, respectively.

One (1) 3,000-gallon vertical aboveground lube oil storage tank

Emission unit ID: TK01Emission point ID: TK01

One (1) 550-gallon horizontal aboveground ethylene glycol storage tank

Emission unit ID: TK02Emission point ID: TK02

One (1) 150-gallon horizontal aboveground methanol storage tank

Emission unit ID: TK03Emission point ID: TK03

One (1) 5,000 gallon vertical aboveground produced fluids storage tank

Emission unit ID: TK05Emission point ID: TK05

Three (3) 30,000-gallon horizontal aboveground NGL storage tanks

Emission unit ID: TK06 – TK08
Emission point ID: TK06 – TK08

One (1) 1,000-gallon horizontal aboveground used oil storage tank

Emission unit ID: TK09Emission point ID: TK09

The above listed 1,000-gallon horizontal aboveground used oil storage tank (TK09) is a new unit that was added to the plant in 2012.

SECTION 2

Title V Operating Permit Renewal Application – General Forms



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL **PROTECTION**

DIVISION OF AIR QUALITY

601 57th Street SE Charleston, WV 25304 Phone: (304) 926-0475

www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information	
Name of Applicant (As registered with the WV Secretary of State's Office): Dominion Transmission, Inc.	2. Facility Name or Location: West Union Plant
3. DAQ Plant ID No.:	4. Federal Employer ID No. (FEIN):
0 1 7 — 0 0 0 1 1	5 5 0 6 2 9 2 0 3
5. Permit Application Type:	
- State of the Control of the Contro	perations commence? 1984 expiration date of the existing permit? 03/05/2017
6. Type of Business Entity:	7. Is the Applicant the:
☑ Corporation ☐ Governmental Agency ☐ LLC ☐ Partnership ☐ Limited Partnership	☐ Owner ☐ Operator ☐ Both If the Applicant is not both the owner and operator,
8. Number of onsite employees: 2	please provide the name and address of the other party. Dominion Gathering and Processing, Inc. 120 Tredegar Street Richmond, VA 23219
9. Governmental Code:	
 ☑ Privately owned and operated; 0 ☐ Federally owned and operated; 1 ☐ State government owned and operated; 2 	County government owned and operated; 3 Municipality government owned and operated; 4 District government owned and operated; 5
10. Business Confidentiality Claims	
Does this application include confidential informatio	n (per 45CSR31)? Yes No
If yes, identify each segment of information on each justification for each segment claimed confidential, in accordance with the DAQ's "PRECAUTIONARY NO	ncluding the criteria under 45CSR§31-4.1, and in

11. Mailing Address				
Street or P.O. Box: 925 White Oaks	Blvd.			
City: Bridgeport		State: WV		Zip: 26330
Telephone Number: (681) 842-300	0	Fax Number: (681) 842-3323	
<u></u>				
12. Facility Location			<u> </u>	.+
Street: Highway 18	City: West Union County: Do		: Doddridge	
UTM Easting: 516.45 km	UTM Northing: 4352.50 km		Zone: [⊠ 17 or □ 18
Directions: 5 miles north of West U		y 18, Doddridge Cou	inty,	
Portable Source? Tyes 🛛] No,			
Is facility located within a nonattain	nment area? [Yes No	If yes, f	for what air pollutants?
Is facility located within 50 miles of	another state?	Yes No	If yes, r Pennsyl Ohio	name the affected state(s). Ivania
Is facility located within 100 km of	·		1 -	name the area(s). reek Wilderness Area
¹ Class I areas include Dolly Sods and Otter Face Wilderness Area in Virginia,	Creek Wilderness A	reas in West Virginia, and	l Shenandoah.	National Park and James River

13. Contact Information		
Responsible Official: Brian C. Sheppard		Title: Vice President, Pipeline Operations
Street or P.O. Box: 925 White Oaks Blvd.		
City: Bridgeport	State: WV	Zip: 26330
Telephone Number: (681) 842-3733	Fax Number: (681)	842-3323
E-mail address: Brian.C.Sheppard@dom.c	com	
Environmental Contact: Joseph Pietro		Title: Environmental Specialist
Street or P.O. Box: 5000 Dominion Blvd.		
City: Glen Allen	State: VA	Zip: 23060
Telephone Number: (804) 273-4175	Fax Number: (804)	273-2964
E-mail address: Joseph. J. Pietro@dom.com	ſ	
Application Preparer: Joseph Pietro	···	Title: Environmental Specialist
Company: Dominion Resources, Inc.	. , , , , , , , , , , , , , , , , , , ,	
Street or P.O. Box: 5000 Dominion Blvd.		
City: Glen Allen	State: VA	Z ip: 23060
Telephone Number: (804) 273-4175	Fax Number: (804)	273-2964
E-mail address: Joseph.J.Pietro@dom.com	Y	

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Natural Gas Liquid Extraction	Natural Gas Liquids (NGL)	211112	1321
			

Provide a general description of operations.

The West Union Extraction Plant is a natural gas liquids extraction facility. Propane and heavier components of natural gas are removed through a turbo-expander cryogenic process.

- 15. Provide an Area Map showing plant location as ATTACHMENT A.
- 16. Provide a Plot Plan(s), e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as ATTACHMENT B. For instructions, refer to "Plot Plan Guidelines."
- Provide a detailed Process Flow Diagram(s) showing each process or emissions unit as ATTACHMENT
 Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
□ SIP	☐ FIP
☐ Minor source NSR (45CSR13)	PSD (45CSR14)
☑ NESHAP (45CSR34)	Nonattainment NSR (45CSR19)
⊠ Section 111 NSPS (Subpart KKK)	Section 112(d) MACT standards (Subpart ZZZZ)
Section 112(g) Case-by-case MACT	☐ 112(r) RMP
Section [12(i) Early reduction of HAP	Consumer/commercial prod. reqts., section 183(e)
Section 129 Standards/Regts.	Stratospheric ozone (Title VI)
Tank vessel reqt., section 183(f)	Emissions cap 45CSR§30-2.6.1
NAAQS, increments or visibility (temp. sources)	☐ 45CSR27 State enforceable only rule
□ 45CSR4 State enforceable only rule	Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	Compliance Assurance Monitoring (40CFR64)
CAIR NO _x Annual Trading Program (45CSR39)	CAIR NO _x Ozone Season Trading Program (45CSR40)
☐ CAIR SO₂ Trading Program (45CSR4I)	

19. Non Applicability Determinations

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

40 CFR 63, Subpart HH "National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities" is not applicable to West Union plant because it doesn't have a "triethylene glycol (TEG) dehydration unit located at a facility" (as per 40 CFR §63.760(b)(2)). Additionally, the Subpart HH requirements for natural gas liquids extraction do not apply to nonMajor/Area HAP sources.

40 CFR 60, Subpart K "Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction or Modification Commenced after June 11, 1973 and prior to May 19, 1978" – all tanks were constructed after July 23, 1984, therefore they are exempt them from this subpart.

40 CFR 60, Subpart Ka "Standards of Performance for Storage Vessels for Petroleum Liquids for which Construction, Reconstruction or Modification Commenced after May 18, 1978 and prior to July 23, 1984" – all tanks were constructed after July 23, 1984, therefore they are exempt them from this subpart.

40 CFR 60, Subpart Kb "Standards of Performance for VOC Storage Vessels for Which Construction, Reconstruction or Modification Commenced after July 23, 1984": tanks TK01, TK02, TK03, TK05, and TK09 are below the minimum size threshold of 75 m3 (19,813 gal), therefore they are exempt from the requirements of this Subpart per 40 CFR §60.110b(a). The NGL tanks (TK06 – TK08) size (30,000 gal) is in the applicable range of 75 m3 - 151 m3 (19,813 gal - 39,890 gal), but they are pressure vessels designed to operate at 1,034 kPa (in excess of 204.9 kPa), and do not have emissions to the atmosphere. Therefore, they are exempt per 40 CFR §60.110b(d)(2).

40 CFR 60 Subpart JJJJ - The compressor engines (001-01 and 001-02) are not subject to this subpart since they were manufactured before the applicability date.

40 CFR 64 - Engines do not have any control; Therefore, in accordance with 40 CFR §64.2(a)(2), CAM is not applicable to the engines.

40 CFR 60 Subpart OOOO "Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after August 23, 2011, and on or before September 18, 2015" — The Facility commenced construction prior to August 23, 2011 and was not modified or reconstructed after August 23, 2011, and on or before September 18, 2015. Therefore, the Facility is not subject to this subpart.

40 CFR 60 Subpart OOOOa "Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After September 18, 2015" – The Facility commenced construction prior to September 18, 2015 and the was not modified or reconstructed after September 18, 2015. Therefore, the Facility is not subject to this subpart.

Permit Shield

20. Facility-Wide Applicable Requirements
List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements).
45 CSR 6-3.1 – Open Burning prohibited (TV 3.1.1)
45 CSR 6-3.2 - Open Burning exemption (TV 3.1.2)
40 CFR Part 61.145(b) / 45 CSR 34 – Asbestos inspection and removal (TV 3.1.3)
45 CSR 11-5.2 – Standby plans for reducing emissions (TV 3.1.5)
WV Code 22-5-4 (a) (14) — The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements (TV 3.1.6)
40 CFR Part 82 Subpart F - Ozone depleting substances (TV 3.1.7)
40 CFR Part 68 – Risk Management Plan (TV 3.1.8)
State Enforceable Only
45 CSR 4-3.1 – Odor control (TV 3.1.4)
45 CSR 17-3.1 – Fugitive particulate matter control (TV 3.1.9)
Permit Shield
For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
40 C.F.R. 60, Subpart KKK; 45CSR16 – The permittee is responsible for thoroughly inspecting the facility for the presence of equipment leaks of VOCs (TV 3.2.1, 001-01 and 001-02 are exempt).
WV Code 22-5-4(a)(14-15) and 45CSR13 – Testing Requirements (TV 3.3.1)
45 CSR 30-5.1.c.2.A – The permittee shall keep records of monitoring (TV 3.4.1).
45 CSR 30-5.1 c.2.B — The permittee shall keep records of monitoring and supporting information for at least 5 years (TV 3.4.2).
45 CSR30-4.4 and 5.1.c.3.D. – Any application form shall contain a certification by the responsible official that states that the statements and information in the document are true (TV 3.5.1)
45 CSR 30-5.1.c.3.E A permittee may request confidential treatment for the submission of reporting (TV 3.5.2).
45 CSR 30-8 – A permittee shall submit a certified emissions statement annually (TV 3.5.4).
45 CSR 30-5.3.e —The permittee shall certify compliance with the conditions of this permit annually on the forms provided by the DAQ (TV 3.5.5).
45 CSR 30-5.1.c.3.A —The permittee shall submit reports of any required monitoring on or before the required dates (TV 3.5.6).
45 CSR 30-5.1 c.3.B & C - The permittee shall promptly submit supplemental reports and notices of deviation (TV 3.5.8)
State Enforceable Only
45 CSR 30-5.1.c – The permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken (TV 3.4.3)
Are you in compliance with all facility-wide applicable requirements? Yes No
If no, complete the Schedule of Compliance Form as ATTACHMENT F.

Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit (if any)
R30-01700011-2012	03/05/2012	
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Permit Number	Date of Issuance	Permit Condition Number
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Section 3: Facility-Wide Emissions

Criteria Pollutants Potential Emissions		
Carbon Monoxide (CO)	12.70	
Nitrogen Oxides (NO _X)	267.88	
Lead (Pb)	N/A	
Particulate Matter (PM _{2,5}) ¹	0.54	
Particulate Matter (PM ₁₀) ¹	0.54	
Total Particulate Matter (TSP)	1.10	
Sulfur Dioxide (SO ₂) 0.03		
Volatile Organic Compounds (VOC) 69.		
Hazardous Air Pollutants ²	Potential Emissions	
Formaldehyde	1,16	
Acrolein	0,1,5	
Acetaldehyde	0.16	
Benzene	0.09	
Ethylbenzene	<0.01	
Toluene	0.03	
Xylene	0:01	
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
CO ₂	6,635	
CH ₄	60.79	
N ₂ O	0.01	
CO ₂ e	8,159	

¹PM_{2.5} and PM₁₀ are components of TSP.

²For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

24.	Insign	ificant Activities (Check all that apply)
×	1.	Air compressors and pneumatically operated equipment, including hand tools.
	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
×	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
\boxtimes	4.	Bathroom/toilet vent emissions.
	5.	Batteries and battery charging stations, except at battery manufacturing plants.
	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
	7.	Blacksmith forges.
	8.	Boiler water treatment operations, not including cooling towers.
	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
	10,	CO ₂ lasers, used only on metals and other materials which do not emit HAP in the process.
\boxtimes	Ïl.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
×	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
	14.	Demineralized water tanks and demineralizer vents.
	15.	Drop hammers or hydraulic presses for forging or metalworking.
	16,	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
	17.	Emergency (backup) electrical generators at residential locations.
	18.	Emergency road flares.
X	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO _x , SO ₂ , VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units.
		Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis:
		Parts washer: VOC emission <0.06 lb/hr and <0.3 tons/yr
		- .
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24.	Insigni	ificant Activities (Check all that apply)
	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27.
		Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis:
		·
		
		·
	ļ	
	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
ĿĴ	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
	26.	Fire suppression systems.
\boxtimes	27.	Firefighting equipment and the equipment used to train firefighters.
	28;	Flares used solely to indicate danger to the public.
	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
	32.	Humidity chambers.
	33.	Hydraulic and hydrostatic testing equipment.
	34.	Indoor or outdoor kerosene heaters.
\boxtimes	35.	Internal combustion engines used for landscaping purposes.
	36.	Laser trimmers using dust collection to prevent fugitive emissions.
	37.	Laundry activities, except for dry-cleaning and steam boilers.
	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
	39,	Oxygen scavenging (de-aeration) of water.
	40.	Ozone generators.

24.	Insign	ificant Activities (Check all that apply)
X	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
X	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
	43,	Process water filtration systems and demineralizers.
×	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
	48.	Shock chambers.
	49.	Solar simulators.
\boxtimes	50.	Space heaters operating by direct heat transfer.
	51.	Steam cleaning operations.
	52.	Steam leaks.
	53.	Steam sterilizers,
	54.	Steam vents and safety relief valves.
	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
	57.	Such other sources or activities as the Director may determine.
	58.	Tobacco smoking rooms and areas.
	59.	Vents from continuous emissions monitors and other analyzers.

25. Equipment Table

Fill out the Title V Equipment Table and provide it as ATTACHMENT D.

26. Emission Units

For each emission unit listed in the Title V Equipment Table, fill out and provide an Emission Unit Form as ATTACHMENT E.

For each emission unit not in compliance with an applicable requirement, fill out a Schedule of Compliance Form as ATTACHMENT F.

27. Control Devices

For each control device listed in the Title V Equipment Table, fill out and provide an Air Pollution Control Device Form as ATTACHMENT G.

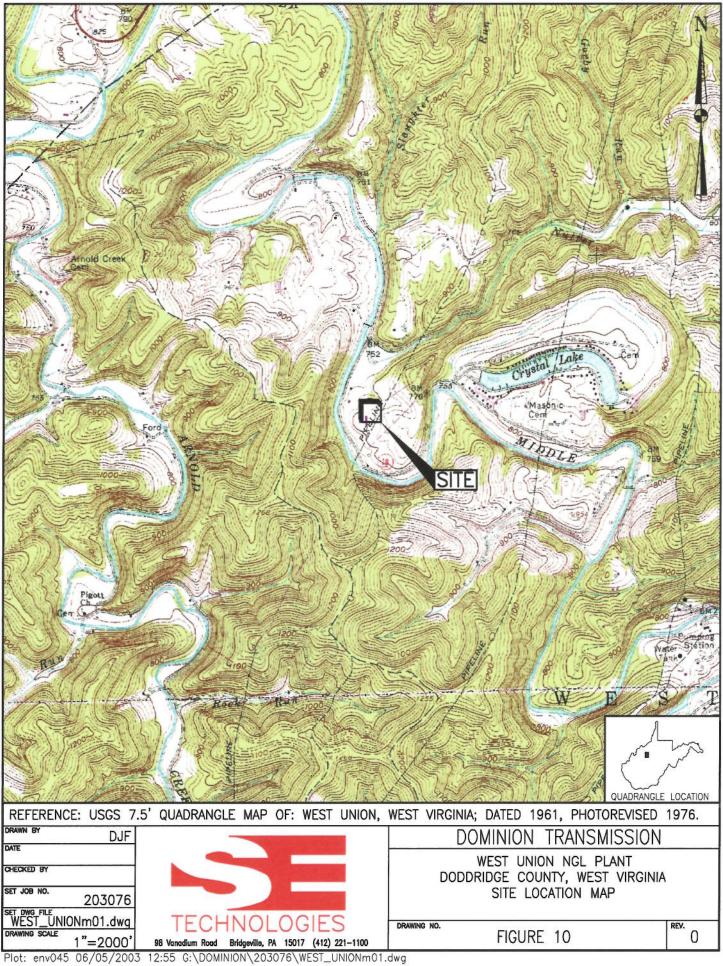
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the Compliance Assurance Monitoring (CAM) Form(s) for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as ATTACHMENT H.

28.	Certification of Truth, Accuracy and Completeness and Certification of Compliance				
Note	e: This Certification must be signed by a responsible official. The original, signed in blue ink, must be submitted with the application. Applications without an original signed certification will be considered as incomplete.				
a. (Certification of Truth, Accuracy and Completeness				
this I cer subtresp knot false	I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.				
b. (Compliance Certification				
Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.					
Res	ponsible official (type or print)				
Nan	Name: Brian C. Sheppard Title: Vice President, Pipeline Operations				
Responsible official's signature: Signature: Signature Date: 08-11-16 (Must be signed and dated in blue ink)					
Not	e: Please check all applicable attachments included with this permit application:				
	ATTACHMENT A: Area Map				
	ATTACHMENT B: Plot Plan(s)				
	ATTACHMENT C: Process Flow Diagram(s)				
	ATTACHMENT D: Equipment Table				
	ATTACHMENT E: Emission Unit Form(s)				
	ATTACHMENT F: Schedule of Compliance Form(s)				
ᆸ	ATTACHMENT G: Air Pollution Control Device Form(s)				
口	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)				

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/dag, requested by phone (304) 926-0475, and/or obtained through the mail.

Attachment A

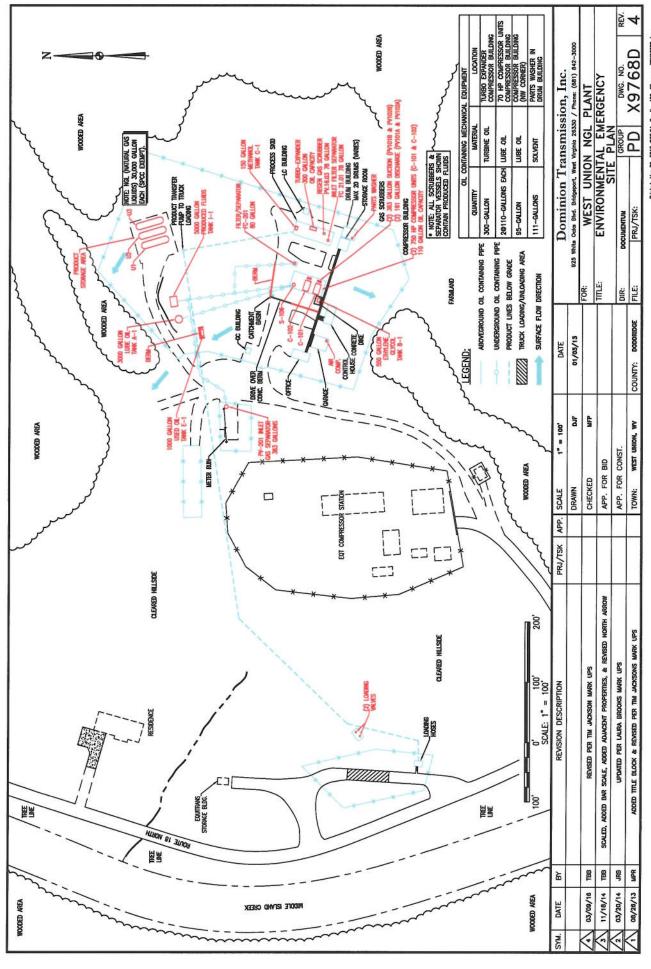
Area Map





Attachment B

Plot Plan



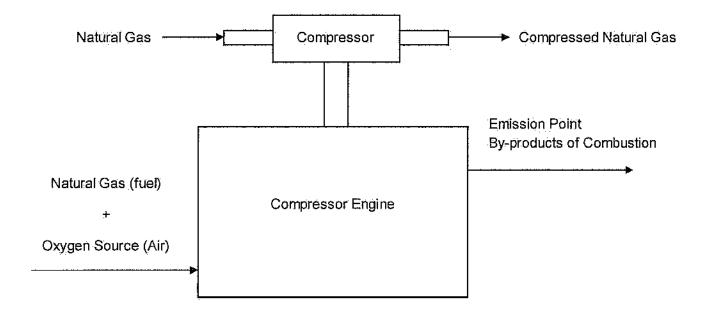
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Attachment C

Process Flow Diagrams

Liquids (NGL) Natural Gas Cryogenic Turbo Expander West Union Extraction Plant Process Diagram Pressurized NGL Pressurized NGL Pressurized NGL Tank Tank Tank Residue Gas G399TA Engine (001-02) Truck Loading Caterpillar Compression Compression Residue Gas Inlet Gas G399TA Engine (001-01) Caterpillar Inlet Gas from Pipeline - Wet Residue Gas

Compressor Engines (001-01 and 001-02) Process Flow Diagram



Attachment D

Title V Equipment Table

ATTACHMENT D - Title V Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID ¹	Control Device ¹	Emission Unit ID ¹	Emission Unit Description	Design Capacity	Year Installed/ Modified
*10-100	N/A	001 & 004	Reciprocating compressor engine; Caterpillar G399TA – 4 cycle, rich burn	730 HP	1984
001-02*	N/A	002 & 004	Reciprocating compressor engine; Caterpillar G399TA-4 cycle, rich burn	730 HP	1984
TK01	N/A	TK01	Vertical Lube Oil Storage Tank	3,000-gallon	2008
TK02	N/A	TK02	Horizontal Ethylene Glycol Storage Tank	550-gallon	2008
TK03	N/A	TK03	Horizontal Methanol Storage Tank	150-gallon	2008
TK05	N/A	TK05	Horizontal Wastewater Storage Tank	5,000-gallon	2008
TK06	Pressure Tank	TK06	Horizontal Natural Gas Liquid Storage Tank	30,000-gallon	1984
TK07	Pressure Tank	TK07	Horizontal Natural Gas Liquid Storage Tank	30,000-gallon	1984
TK08	Pressure Tank	TK08	Horizontal Natural Gas Liquid Storage Tank	30,000-gallon	1984.
New units to	equipment I	ist:			
TK09	N/A	TK09	Horizontal Used Oil Tank	1,000-gallon	2012
Units that ha	ve been remo	oved:			
TK04	N/A	TK04	Horizontal Wastewater Storage Tank	150-gallon	2008
	<u> </u>				

^{*}Equipment burns or combusts pipeline quality natural gas only.

For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

Attachment E

Emission Unit Forms

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: 001-01 Provide a description of the emission Natural gas fired reciprocating internal		List any control devices associated with this emission unit: N/A esign parameters, etc.):		
Manufacturer: Caterpillar	Model number: G399TA	Serial number: 49C00879		
Construction date:	Installation date: 1984	Modification date(s) N/A	:	
Design Capacity (examples: furnace 730 HP	s - tons/hr, tanks - gallons):			
Maximum Hourly Throughput: 0.00648 MMcf/hr	Maximum Annual Throughput: 56.76 MMef/yr	Maximum Operating Schedule: 8,760 hrs/yr		
Fuel Usagé Data (fill out all applicat	ole fields)	<u> </u>		
Does this emission unit combust fuel? X Yes No If yes, is it?			X Direct Fired	
Maximum design heat input and/or 730 HP	maximum horsepower rating:	Type and Btu/hr rat 6.48 MMBtu/hr	ing of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fuel Pipeline quality natural gas Maximum hourly fuel usage Maximum annual fuel usage	el usage for each. = 0.00648 MMcf/hr). For each fuel type l	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
Pipeline quality natural gas	20 gr sulfur/100 cf	N/A	1,000 Btu/cf	
		-		

Emissions Data			
Criteria Pollutants	Potential Emissions		
	РРН	TPY	
Carbon Monoxide (CO)	1.45	6.35	
Nitrogen Oxides (NO _X)	30.58	133.94	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	0.06	0;27	
Particulate Matter (PM ₁₀)	0.06	0.27	
Total Particulate Matter (TSP)	0.13	0,55	
Sulfur Dioxide (SO ₂).	< 0.01	0.02	
Volatile Organic Compounds (VOC)	1.56	6.83	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Formaldehyde	0.13	0.58	
Berizenė.	0.01	0.04	
Toluene	<0:01	0.02	
Ethylbenzene	<0.01	<0.03	
Xylenes	< 0.01	0.01	
Acetaldehyde	0.02	0.08	
Acrolein	0.02	0.07	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	PPH	TPY	
.CO ₂	757.43	3,318	
CH ₄	0.01	0.06	
N ₂ O	<0.01	0.01	
CO ₂ e	758.21	3,321	

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

- CO, NO_x, and VOC emission rates based on manufacturer specifications.
- PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1, 7/00.
- CO₂, CH₄, and N₂O emission factors based on Tables C-1 and C-2 of 40 CFR Part 98, Subpart C, and CO₂e emission rates use the following carbon equivalence factors: 25 for CH₄, and 298 for N₂O.

·
Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
**Note: This unit is a "remote" RICE unit under NESHAP Subpart ZZZZ. Therefore, the requirements below are based off of that category and not of the conditions in the Title V permit (which are not for remote units).
40 CFR Part 63 Subpart ZZZZ – NESHAP Applicability 40 CFR Part 63 Subpart ZZZZ – NESHAP Emission Limitations 40 CFR Part 63 Subpart ZZZZ – NESHAP Operation and Maintenance Requirements 40 CFR Part 63 Subpart ZZZZ – NESHAP Continuous Compliance Requirements 40 CFR Part 63 Subpart ZZZZ – NESHAP Recordkeeping Requirements 40 CFR Part 63 Subpart ZZZZ – NESHAP General Requirements/Provisions
X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs (replace as necessary), and inspect all hoses and belts (replace as necessary) every 2,160 hours of operation or annually, whichever comes first, or implement an oil analysis program. [63.6595(a)(1), 63.6603(a), and Table 2d item 11]
40 CFR Part 63 Subpart ZZZZ - Evaluate the status of the RICE every 12 months to determine the remote status [63.6603(f)]
40 CFR Part 63 Subpart ZZZZ - Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan [Table 6 Item 9]
40 CFR Part 63 Subpart ZZZZ – Operate RICE minimizing the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [63.6625(h)]
40 CFR Part 63 Subpart ZZZZ – Maintain RICE with an option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d, with the oil analysis being performed at the same frequency specified for changing the oil in Table 2d. [63.6625(j)]
40 CFR Part 63 Subpart ZZZZ - Comply with all applicable general requirements/provisions (63.6605)
40 CFR Part 63 Subpart ZZZZ – Demonstrate continuous compliance with emissions and operating limitations. [63.6640(a), (b), and (e), and Table 6 Item 9]
40 CFR Part 63 Subpart ZZZZ - Comply with all applicable recordkeeping requirements [63.6655(a), (d), and (e), 63.10(b)(1)]

40 CFR Part 63 Subpart ZZZZ - Comply with all applicable recordkeeping requirements [63.6655, 63.10(b)(1)]

Are you in compliance with all applicable requirements for this emission unit? X Yes No

If no, complete the Schedule of Compliance Form as ATTACHMENT F.

ATTACHMENT E - Emission Unit Form				
Emission Unit Description				
Emission unit ID number: 001-02 Provide a description of the emission	Emission unit name: Engine 02 Reciprocating Engine	ngine 02 eciprocating Engine with this emission unit: N/A		
Natural gas fired reciprocating interna		esign parameters, etc.		
Manufacturer: Caterpillar	Model number: G399TA	Serial number: 49C00879		
Construction date:	Installation date: 1984	Modification date(s) N/A	*	
Design Capacity (examples: furnace 730 HP	s - tons/hr, tanks - gallons):	1		
Maximum Hourly Throughput: 0.00648 MMcf/hr	Maximum Annual Throughput: 56.76 MMcf/yr	Maximum Operating Schedule: 8,760 hrs/yr		
Fuel Usage Data (fill out all applical	ole fields)			
Does this emission unit combust fuel	1? _X_Yes No	If yes, is it? Indirect Fired X Direct Fired		
Maximum design heat input and/or 730 HP	maximum horsepower rating:	Type and Btu/hr rat 6:48 MMBtu/hr	ing of burners:	
List the primary fuel type(s) and if a the maximum hourly and annual fuel Pipeline quality natural gas Maximum hourly fuel usage Maximum annual fuel usage	et usage for each. = 0.00648 MMcf/hr	s). For each fuel type l	listed, provide	
Describe each fuel expected to be us	ed during the term of the permit.			
Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value	
Pipeline quality natural gas	20 gr sulfur/100 cf	.N/A	1,000 Btu/cf	

Emissions Data			
Criteria Poliutants	Potential Emissions		
	РРН	ТРУ	
Carbon Monoxide (CO)	1.45	6.35	
Nitrogen Oxides (NO _x)	30.58	133.94	
Lead (Pb)	N/A	N/A	
Particulate Matter (PM _{2.5})	0.06	0,27	
Particulate Matter (PM ₁₀)	0.06	0.27	
Total Particulate Matter (TSP)	0,13	0,55	
Sulfur Dioxide (SO ₂)	< 0.01	0.02	
Volatile Organic Compounds (VOC)	1.56	6.83	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Formaldehyde	0.13	0.58	
Benzene	0.01	0.04	
Toluene	<0.01	0.02	
Ethylbenzene	<0.01	<0.01	
Xylenes	<0.01	0.01	
Acetaldehyde	0.02	0.08	
Acrolein	0.02	0.07	
Regulated Pollutants other than	Potential Emissions		
Criteria and HAP	РРН	TPY	
CO ₂	757.43	3,318	
CH ₄	0.01	0.06	
N ₂ O	<0.01	0.01	
CO ₂ e	758,21	3,321	

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

- CO, NOx, and VOC emission rates based on manufacturer specifications.
- PM₁₀, PM_{2.5}, SO₂, and HAP emission factors based on AP-42 Section 3.2, Table 3.2-1, 7/00.
- CO₂, CH₄, and N₂O emission factors based on Tables C-1 and C-2 of 40 CFR Part 98, Subpart C, and CO₂e emission rates use the following carbon equivalence factors: 25 for CH₄, and 298 for N₂O.

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (Note: Title V permit condition numbers alone are not the underlying applicable requirements). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
**Note: This unit is a "remote" RICE unit under NESHAP Subpart ZZZZ. Therefore, the requirements below are based off of that category and not of the conditions in the Title V permit (which are not for remote units).
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X Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
40 CFR Part 63 Subpart ZZZZ – Change oil and filter, inspect spark plugs (replace as necessary), and inspect all hoses and belts (replace as necessary) every 2,160 hours of operation or annually, whichever comes first, or implement an oil analysis program. [63.6595(a)(1), 63.6603(a), and Table 2d item [1]
40 CFR Part 63 Subpart ZZZZ – Evaluate the status of the RICE every 12 months to determine the remote status [63.6603(f)]
40 CFR Part 63 Subpart ZZZZ – Operate and maintain the RICE according to the manufacturer's instructions OR develop and follow your own maintenance plan [Table 6 Item 9]
40 CFR Part 63 Subpart ZZZZ — Operate RICE minimizing the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [63.6625(h)]
40 CFR Part 63 Subpart ZZZZ – Maintain RICE with an option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table 2d, with the oil analysis being performed at the same frequency specified for changing the oil in Table 2d. [63.6625(j)]
40 CFR Part 63 Subpart ZZZZ - Comply with all applicable general requirements/provisions (63.6605)
40 CFR Part 63 Subpart ZZZZ – Demonstrate continuous compliance with emissions and operating limitations. [63.6640(a), (b), and (e), and Table 6 Item 9]
40 CFR Part 63 Subpart ZZZZ - Comply with all applicable recordkeeping requirements [63.6655(a), (d), and (e), 63.10(b)(1)]
40 CFR Part 63 Subpart ZZZZ - Comply with all applicable recordkeeping requirements [63.6655, 63.10(b)(1)]
Are you in compliance with all applicable requirements for this emission unit? X Yes No
If no, complete the Schedule of Compliance Form as ATTACHMENT F.